

Qwiic ToF Imager - VL53L5CX

SEN-18642

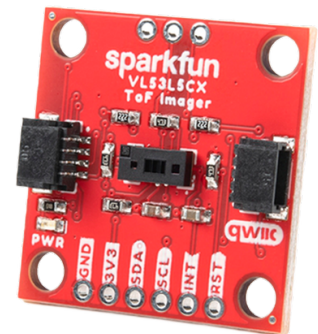
Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

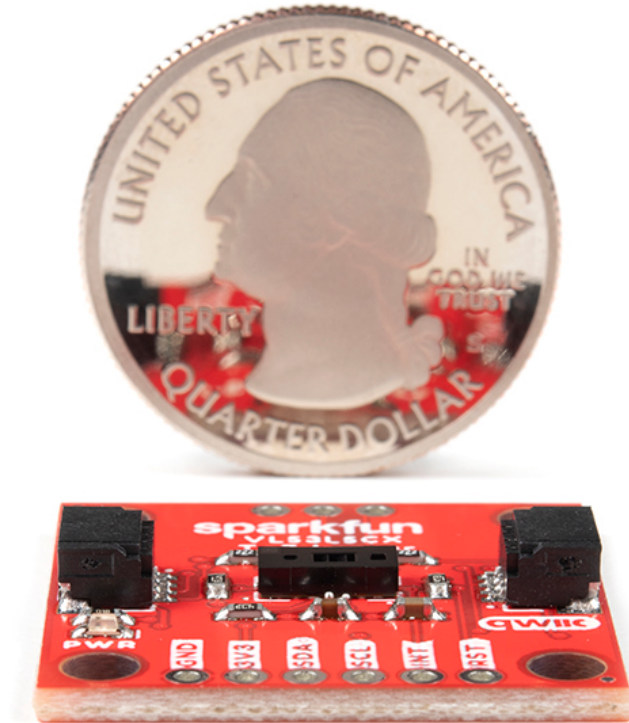
SparkFun Qwiic ToF Imager is a 64-pixel Time-of-Flight (ToF) 4-meter ranging sensor built around the VL53L5CX. The chip integrates a SPAD array, physical infrared filters, and Diffractive Optical Elements (DOE). This achieves performance in various ambient lighting conditions with a range of cover glass materials. The Qwiic TOF Imager board utilizes the Qwiic system, so no soldering is required to connect to the rest of the system. There are also a broken-out 0.1" spaced pins to use a breadboard. Ideal for 3D room mapping, obstacle detection for robotics, gesture recognition, IoT, laser-assisted autofocus, and AR/VR enhancement, the Qwiic connector on this sensor makes integration easy.



Features

- Multizone ranging output with either 4x4 or 8x8 separate zones
- Autonomous low-power mode with interrupt programmable threshold to wake up the host
- Up to 400cm ranging
- 940nm invisible light Vertical-Cavity Surface-Emitting Laser (VCSEL) and integrated analog driver
- 60Hz frame rate capability
- 63° diagonal square FoV using Diffractive Optical Elements (DOE) on both transmitter and receiver
- 3.3V operating voltage
- I²C Address 0x52
- 2x Qwiic connectors

Board Overview



Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-qwiic-tof-imager/>